

**Creating Tomorrow's Antenna Technology Today**

The **ARA-2219C** antenna is a wide, multi- band, omni- directional, vehicular communications antenna. The antenna has been tuned for performance between 220MHz and 450MHz as well as 1200 MHz and 2000 MHz. The gain has been tuned for -10° to 10° in elevation with azimuthal variations ±1 dB. Broadband, low SWR ensures no power reduction in mobile or vehicular amplifiers.

This antenna is designed to be fully qualified at an environmental laboratory. The rugged, TRL-6 (Technology Readiness Level) antenna can be coated with a variety of materials including CARC Green/Tan or Dead Flat Black paint.

**Electrical Specifications**

Frequency, Band 1 (MHz): .....	225 – 450
Frequency, Band 2 (MHz): .....	1200 – 2000
VSWR, Band 1: .....	< 2.0:1 typical
VSWR, Band 1 ( <i>max</i> ): .....	2.5:1
VSWR, Band 2: .....	< 1.75:1 typical
VSWR, Band 2 ( <i>max</i> ): .....	2.25:1
Gain, Band 1.....	0 – 3 dBi
Gain, Band 2.....	1 – 5.5 dBi
Power (per port): .....	150+ Watts CW
Input Impedance: .....	50 Ω
Port: .....	J1
Connector: .....	TNC Female*

**Mechanical Specification**

Weight ( <i>vehicular</i> ) .....	12 lbs (5.4 kg)
Height .....	85 in (2.15 m)
Diameter(upper).....	1.5 in (38 mm)
Diameter (lower) .....	1.75 in (44.5mm)
Mount ( <i>vehicular</i> ) .....	NATO 4-hole
Finish.....	CARC Green (Tan), Black
Spring.....	>40,000 flexures at 60°
Spring.....	4,000 flexures at 90°



**ARA-2219C**

The ARA-2219C is a ground-plane independent antenna with an aluminum mount for excellent electrical bonding to a standard vehicular NATO mount. The radome offers high voltage isolation of greater than 25 kV.

\*Connectors can be customized to suit system needs.

This data sheet has been released into the public domain in accordance with International Traffic in Arms Regulations (ITAR) 22 CFR 120.11(6).